

STRUCTURAL ABBREVIATIONS

A/E	ARCHITECT/ENGINEER	I	MOMENT OF INERTIA
A.B.	ANCHOR BOLT	IBC	INTERNATIONAL BUILDING CODE
A.B.C.	AGGREGATE, BASE COURSE	ID.	IDENTIFICATION, INSIDE DIAMETER,
A.C.I.	AMERICAN CONCRETE INSTITUTE	INCL.	INCLUDED
ADD'L	ADDITIONAL	INFO.	INFORMATION
ADON.	ADDITION	INT.	INTERIOR
ADH.	ADHESIVE	L	ANGLE
ADJ.	ADJACENT, ADJOINING, OR ADJUSTABLE	LBS.	POUND
A.F.F.	ABOVE FINISHED FLOOR	L.F.	LINEAR FEET (FOOT)
A.F.G.	ABOVE FINISHED GRADE	LH	LEFT HAND
A.F.S.	ABOVE FINISHED SLAB	LN.	LINEAR
AGGR.	AGGREGATE	LLH	LONG LEG HORIZONTAL
AHR.	ANCHOR	LLV	LONG LEG VERTICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LT, GA.	LIGHT GAGE
ALT.	ALTERNATE	LT, WT.	LIGHTWEIGHT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LWR.	LIGHTWEIGHT CONCRETE
APA	AMERICAN PLYWOOD ASSOCIATION	LVR.	LAYER
APPD.	APPROVED	MAINT.	MAINTENANCE
APPROX.	APPROXIMATE	MAN.	MANUAL
AR	AS REQUIRED	MATL.	MATERIAL
ARCH.	ARCHITECT	MAX.	MAXIMUM
AS	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	M.S.	MACHINE BOLT
ASPH.	ASPHALT	MECH.	MECHANICAL
ASSN.	ASSOCIATION	MEZZ.	MEZZANINE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MFG.	MANUFACTURED
ATCH.	ATTACHMENT	MFR.	MANUFACTURING
AWS	AMERICAN WELDING SOCIETY	MFR, REC.	MANUFACTURER'S RECOMMENDATION
B PL.	BASE PLATE	MD.	MIDDLE
BLDG.	BUILDING	MID.	MIDDLE
BM.	BEAM	MISC.	MISCELLANEOUS
B.O.	BOTTOM	MTL.	METAL
B.O.	BOTTOM OF	N/A	NOT APPLICABLE
BRG.	BRACING	NOM.	NOMINAL
BRG.	BRIDGING	NTS	NOT TO SCALE
BRG.	BRIDGING	N.S.	NEAR SIDE
BRG. PL.	BEARING PLATE		
BTWN.	BETWEEN		
BUR.	BUILT-UP ROOFING		
C CONC.	CAST CONCRETE	O.C.	ON CENTER
C TO C	CENTER TO CENTER	O.D.	OUTSIDE DIAMETER OUTSIDE DIMENSION
CD	CONSTRUCTION DOCUMENTS	OPH	OPPOSITE HAND
CFMF	COLD-FORMED METAL FRAMING	OPNG.	OPENING
CJP	CAST-IN-PLACE	OPR.	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
C.J.	CONSTRUCTION JOINT OR CONTROL JOINT	OSHA	
CL	CENTER LINE		
CLR.	CLEAR		
CMU	CONCRETE MASONRY UNIT	PAR.	PARALLEL OR PARAPET
COL.	COLUMN	P.C.C.	PRECAST CONCRETE
CONC.	CONCRETE	PERF.	PERFORATED
CONN.	CONNECTION	PLYWD.	PLYWOOD
CONSTR.	CONSTRUCTION	PREP.	PREPARATION
CONT.	CONTINUE	PSF	POUNDS PER SQUARE FOOT
CONTR.	CONTRACTOR	PSI	POUNDS PER SQUARE INCH
COORD.	COORDINATE	QTY.	QUANTITY
CORR.	CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE		
CRS	COLD ROLLED STEEL		
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	REF.	REFERENCE
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE	REIN.	REINFORCEMENT, REINFORCE
CSK.	COUNTER SUNK	REQ.	REQUIRED
D	DEPTH OR PENNY (NAIL)	REQ'D.	REQUIRED
DBL.	DOUBLE	RFI	REQUEST FOR INFORMATION
DEL.	DELITE		
DEMO.	DEMOLITION	SCHED.	SCHEDULE
DEPT.	DEPARTMENT	SCHEM.	SCHEMATIC
DTL.	DETAIL	SECT.	SECTION
DIA.	DIAMETER	S.F.	SQUARE FOOT (FEET)
DIAG.	DIAGONAL	SHT.	SHEET
DIFF.	DIFFERENCE	SHTG.	SHEATHING
DIM.	DIMENSION	SM.	SIMILAR
DIR.	DIRECTION	SJ	STEEL JOIST INSTITUTE
DIST.	DISTANCE	SOG.	SLAB ON GRADE
DIV.	DIVID OR DIVISION	SPEC.	SPECIFICATION
DL	DEAD LOAD	SQ.	SQUARE
DOC.	DOCUMENT	SQ. IN.	SQUARE INCH
D.F.	DOUGLAS FIR	STD.	STANDARD
DWG.	DRAWING	STL.	STEEL
EA	EACH	STL. JST.	STEEL JOIST
ELEV.	ELEVATION	STL. LNTL.	STEEL LINTEL
ENGR.	ENGINEER	STL. PL.	STEEL PLATE
E.N.	EDGE NAILING	STL. RF, DK.	STEEL ROOF DECK
EQ.	EQUAL	STL. TB.	STEEL TUBE
EQ. SP.	EQUALLY SPACED	STL. TR.	STEEL TRUSS
EQUIP.	EQUIPMENT	STR.	STRIPPERS
ETC	AND SO FORTH OR ET CETERA	STRUCT.	STRUCTURAL
E.W.	EACH WAY	STRUCT. STL.	STRUCTURAL STEEL
EXP.	EXISTING	SUB	SUBSTITUTE
EXT.	EXPANSION OR EXPOSED EXTERIOR	SURF.	SURFACE
FAS.	FASCIA	SUSP.	SUSPEND
FDN.	FOUNDATION	SUSP. CLG.	SUSPENDED CEILING
F.F. EL.	FINISH FLOOR ELEVATION	SYM.	SYMBOL
FIG.	FIGURE	T&G	TONGUE AND GROOVE
FIL.	FILLET	T&M	TIME AND MATERIALS
FIN.	FINISH	TB	THROUGH BOLT OR TOWEL BAR
FIN. FLR.	FINISH FLOOR	TECHN.	TECHNICAL
FIN. GR.	FINISH GRADE	TEMP.	TEMPERATURE OR TEMPORARY
FLR.	FLOOR	THK.	THICKNESS
FLR. FIN.	FLOOR FINISH	THRU.	THROUGH
F.O.C.	FACE OF CONCRETE OR FACE OF CURB	THRUOUT	THROUGHOUT
F.O.S.	FACE OF SLAB OR FACE OF STUD	T.O.	TOP OF
F.O.W.	FACE OF WALL	T.O. FTG.	TOP OF FOOTING
FRMG.	FRAMING	T.O.M.	TOP OF BEAM
FT	FEET OR FOOT	T.O.M.	TOP OF MASONRY
FTG.	FOOTING	T.O.P.	TOP OF PARAPET
F.S.	FAR SIDE	T.O.S.	TOP OF STEEL
GA	GAUGE OR GYPSUM ASSOCIATION	TYP.	TYPICAL
GALV.	GALVANIC OR GALVANIZED	VAR.	VARIES
G.C.	GENERAL CONTRACTOR	VERT.	VERTICAL
GLU LAM	GLUED LAMINATED WOOD	VEST.	VESTIBULE
CSB	GYPSUM SHEATHING BOARD	VF	VERIFY IN FIELD
GT	GROUT	VNR.	VENEUR
GYP. BD.	GYPSUM BOARD	V.R.	VAPOR RETARDER
HDR.	HEADER	W/	WITH
HCA	HEADED CONCRETE ANCHOR	W/O	WITHOUT
HCR.	HANGER	WARR.	WARRANTY
HORIZ.	HORIZONTAL	WD.	WOOD
H.S.	HIGH STRENGTH	WF	WIDE FLANGE
HT.	HEIGHT	WT	WEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONN	WWF	WELDED WIRE FABRIC
		X BRACE	CROSS BRACE

GENERAL STRUCTURAL NOTES

- DESIGN INFORMATION AND LOADS USED: 2006 INTERNATIONAL BUILDING CODE
A. ROOF DEAD LOAD 20 PSF
B. FLOOR DEAD LOAD 80 PSF
C. OCCUPANCY CATEGORY II
D. SNOW LOAD:
1. GROUND SNOW LOAD, P_g 20 PSF
2. SNOW EXPOSURE FACTOR, C_e 1.0
3. SNOW IMPORTANCE FACTOR, I 1.1
4. THERMAL FACTOR, C_t 1.0
5. FLAT ROOF SNOW LOAD 25 PSF
E. FLOOR LIVE LOAD 100 PSF
F. WIND LOAD:
1. BASIC WIND SPEED 90 MPH
2. WIND IMPORTANCE FACTOR 1.15
3. WIND EXPOSURE C
4. INTERNAL PRESSURE COEF. $G C P_i$ +/- 0.18
G. SEISMIC IMPORTANCE FACTOR, I_s 1.5
H. MAPPED SPECTRAL RESPONSE ACCEL., S_s 0.311g
I. MAPPED SPECTRAL RESPONSE ACCEL., S_1 0.106g
J. SITE CLASS D
K. P_g 1.55
L. P_v 2.38
M. SPECTRAL RESPONSE COEFFICIENT, S_{ms} 0.32
N. SPECTRAL RESPONSE COEFFICIENT, S_{m1} 0.17
O. SEISMIC DESIGN CATEGORY D
P. BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY REINF. CONC. SHEAR WALLS
Q. ANALYSIS PROCEDURE (BUILDING FRAME SYSTEM)
R. RESPONSE MODIFICATION FACTOR, R 5
S. SEISMIC RESPONSE COEFFICIENT USED FOR DESIGN C_s 0.13
T. FOR DESIGN
U. DESIGN BASE SHEAR $V =$ 197K
H. GEOTECHNICAL REPORT:
1. PREPARED BY MATERIALS TESTING & INSPECTION, DATED 15 APRIL 2009
2. M/I FILE NUMBER B90289g W/ ADDENDUM DATED 1 MAY 2009
- SPECIAL INSPECTION:
A. A SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE CONTRACTOR. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
B. ALL SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH THE 2006 INTERNATIONAL BUILDING CODE.
C. INSPECTION OF TWENTY PERCENT OF AN OPERATION OR PROCEDURE SHALL BE CONSIDERED ADEQUATE FOR PERIODIC SPECIAL INSPECTIONS.
D. CONCRETE
ITEM
I. INSPECTION OF REINFORCING STEEL, INCLUDING PLACEMENT. PERIODIC
II. INSPECTION OF REINFORCING STEEL WELDING. CONTINUOUS
III. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING. CONTINUOUS
IV. VERIFY USE OF REQUIRED DESIGN MIX. PERIODIC
V. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS. CONTINUOUS
VI. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES. PERIODIC
VII. POST-INSTALLED ADHESIVE ANCHORS. CONTINUOUS
E. STRUCTURAL STEEL:
ITEM
I. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. PERIODIC
II. INSPECTION OF HIGH-STRENGTH BOLTING: IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. PERIODIC
III. MATERIAL VERIFICATION OF STRUCTURAL STEEL: IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS. PERIODIC
IV. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS. PERIODIC
V. INSPECTION OF WELDING: COMPLETE AND PARTIAL PENETRATION GROOVE WELDS CONTINUOUS
MULTI-PASS FILLET WELDS SINGLE-PASS FILLET WELDS > 5/16 INCH CONTINUOUS
SINGLE-PASS FILLET WELDS < 5/16 INCH CONTINUOUS
FLOOR AND DECK WELDS PERIODIC
VI. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS: DETAILS SUCH AS BRACING AND STIFFENING. PERIODIC
MEMBER LOCATIONS PERIODIC
APPLICATION OF JOINT DETAILS AT EACH CONNECTION PERIODIC
F. COLD FORMED METAL FRAMING
ITEM
I. WELDING PERIODIC
- FOUNDATION:
A. SEE FOUNDATION PLANS AND GEOTECHNICAL REPORT FOR EARTHWORK REQUIREMENTS.
B. AN ALLOWABLE NET SOIL BEARING CAPACITY OF 3,000 PSF WAS USED IN THE DESIGN OF ALL FOOTINGS, PER GEOTECH REPORT.
C. FOOTINGS SHALL BE SUPPORTED ON 1.5 FT [457mm] OF COMPACTED STRUCTURAL FILL MATERIAL WRAPPED IN FILTER FABRIC, REINFORCED WITH TWO LAYERS OF APPROVED GEOGRID. THE GEOGRID REINFORCED FILL ZONE SHALL BEAR ON COMPETENT, NATIVE, POORLY GRADED SAND WITH GRAVEL OR COMPACTED STRUCTURAL FILL FOUNDED ON THIS STRATUM. GEOGRID MUST EXTEND A MINIMUM OF ONE FOOT BEYOND THE FOOTING LINE ON ALL SIDES. COORDINATE WITH GEOTECH REPORT FOR GEOGRID AND STRUCTURAL FILL REQUIREMENTS.
D. PROVIDE DAMPROOFING AT EXTERIOR FOUNDATION WALLS AT EXTERIOR FACE BELOW FINISHED GRADE.
E. ALL STRUCTURAL FILL MATERIAL AND PLACEMENT SHALL BE PER GEOTECHNICAL REPORT.
4. CONCRETE:
A. THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS 3,500 PSI
B. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
1. CONCRETE PLACED DIRECTLY AGAINST EARTH - 3 [76mm] INCHES.
2. FORMED SURFACES: #5 BARS OR SMALLER - 1 1/2 [38mm] INCHES.
#6 BARS OR LARGER - 2 [51mm] INCHES.
3. STRUCTURAL SLABS - 1 [25mm] INCH.
C. PROVIDE (2) #3 BARS, WITH 2'-0" [610mm] PROJECTION ON ALL SIDES OF ALL OPENINGS IN CONCRETE, U.N.O.
D. ALL EMBEDDED ANCHOR BOLTS SHALL BE HEADED BOLTS OF MATERIAL CONFORMING TO SPECIFICATIONS UNLESS NOTED OTHERWISE.
E. CONTRACTOR SHALL PROVIDE FORMS AND FRAMING AS REQUIRED FOR ELEVATED SLABS AT EXPOSED EDGES AND OPENINGS TO MAINTAIN EDGES STRAIGHT AND PLUMB AND TRUE.
F. REINFORCEMENT IN FOOTINGS & STEM WALLS SHALL BE CONTINUOUS AROUND CORNERS & INTERSECTIONS.
G. POST-INSTALLED ADHESIVE ANCHORS
1. ADHESIVE FOR ANCHORS TO BE 'SIMPSON' 'SET-XP' EPOXY ADHESIVE SYSTEM
2. ANCHORS TO BE A36 THREADED ROD OR EQUAL.
3. MINIMUM EMBEDMENT LENGTH SHALL BE AS FOLLOWS UNLESS DETAILED OTHERWISE.
ANCHOR DIA. (IN.) MIN. EMBEDMENT (IN.)
3/8" 3 1/2" [89mm]
1/2" 4 1/4" [108mm]
5/8" 5 [127mm]
3/4" 6 5/8" [168mm]
1" 8 1/4" [210mm]
1 1/8" 12" [305mm]
4. ALL ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
- REINFORCING STEEL:
A. ASTM A615, GRADE 60. BARS TO BE WELDED SHALL BE ASTM A706, GRADE 60.
B. MIN. LENGTH OF LAPPED SPLICES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE. STAGGER SPLICES IN WALLS SO THAT NO TWO ADJACENT BARS ARE SPLICED IN THE SAME LOCATION UNLESS SHOWN OTHERWISE.
MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.
BAR SIZE SPLICE LENGTH
#3 18" [457mm]
#4 24" [610mm]
#5 30" [762mm]
#6 36" [914mm]
#7 62" [1575mm]
#8 71" [1803mm]
#9 78" [1930mm]
C. FORM TIES SHALL BE EITHER THREADED OR THE SNAP-OFF TYPE SO THAT NO METAL WILL BE LEFT WITHIN ONE INCH OF THE WALL SURFACE. RECESSES ARE TO BE FILLED AND POINTED W/ MORTAR.
D. PROVIDE BAR SUPPORTS AND SPACERS FOR REINFORCEMENT. PROVIDE CHAIRS W/ 22 GA. SAND PLATES OR PRECAST BLOCKS FOR ALL REINFORCING OF SLABS ON GRADE AND DECK CHAIRS FOR REINFORCEMENT IN SLABS OVER STEEL DECKING. SECURE THE REINFORCEMENT TO SUPPORTS.
E. DO NOT WELD ANY REINFORCEMENT UNLESS SPECIFICALLY DETAILED.
F. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, $F_y=75,000$ PSI.
6. STRUCTURAL STEEL:
A. STEEL DESIGNATIONS: WIDE FLANGE SHAPES (BEAMS & COLUMNS)..... ASTM A992
OTHER ROLLED SHAPES & MISCELLANEOUS PLATE ASTM A36 (U.N.O.)
MOMENT FRAME CONNECTION CONTINUITY AND WEB DOUBLER PLATES..... ASTM A572
HOLLOW STRUCTURAL SECTIONS (HSS) ASTM A500, GRADE 'B'
B. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA. A325 BOLTS UNLESS NOTED OTHERWISE. IF A CERTAIN SITUATION IS NOT DETAILED USE A SIMILAR DETAIL. CONNECTIONS SHALL GENERALLY FOLLOW THE TYPES SHOWN IN AISC MANUAL OF STEEL CONSTRUCTION.
C. ALL ELEVATIONS AND HEIGHTS GIVEN ARE FROM THE FINISHED FIRST FLOOR DATUM ELEVATION, WHICH IS SET AT 100'-0".
D. BASE PLATE ANCHOR ROD HOLES MAY BE OVERSIZED AS FOLLOWS:
ROD DIA.(IN.) HOLE DIA.(IN.) MIN. WASHER DIA.(IN.) WASHER THICKNESS
3/4" 1 1/4" 1 7/8 N.A.
1 1/2 2 5/8 3/8
E. SQUARE PLATE WASHERS FABRICATED FROM ASTM A36 MATERIAL ARE ACCEPTABLE. MIN. SIDE LENGTH = MINIMUM DIAMETER.
F. COMPLETE JOINT PENETRATION WELDS BETWEEN BEAM FLANGES AND COLUMNS SHALL BE CONSTRUCTED AS FOLLOWS. TOP FLANGE: EITHER REMOVE WELD BACKING, BACKGOUGE, AND ADD 5/16" MIN. FILLET WELD OR LEAVE BACKING IN PLACE AND ADD 5/16" FILLET UNDER BACKING. BOTTOM FLANGE: REMOVE WELD BACKING, BACKGOUGE, AND ADD 5/16" MINIMUM FILLET WELD.
G. WELD ACCESS HOLES AT MOMENT CONNECTIONS SHALL BE AS RECOMMENDED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA 350, CHAPTER 3.
7. WOOD FRAMING:
A. ROUGH FRAMING:
1. LEDGERS, PLATES, STUDS, & OTHER STRUCTURAL LUMBER SHALL BE DOUGLAS FIR NO. 2 OR BETTER.
2. LEDGERS AND PLATES IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
3. ALL HEADERS TO BE 4X8 DF, #2, U.O.N.
B. ALL NAILS SHALL BE COMMON TYPE NAILS.
C. EXTERIOR WOOD STUD WALL CONSTRUCTION
1. USE 2X6 DF, #2 STUDS AT 16" O.C.
2. PROVIDE 7/16" EXT OSB SHEATHING. FASTEN W/ 16 GAx1 1/2" STAPLES AT 6" O.C. ALL EDGES AND AT 10" O.C. TO INTERMEDIATE FRAMING U.N.O., CW/ SHEAR WALL SCHEDULE FOR ADDITIONAL NAILING REQUIREMENTS.
3. PROVIDE 2X6 BLOCKING AT ALL WALL SHEATHING EDGES AS REQ'D. FOR NAILING.
D. ALL PLY/OSB NAILING SHALL BE 3/8" MIN. FROM PANEL EDGES. PROVIDE 1/8" SPACING BETWEEN PANEL EDGES BY MEANS OF NAILS OR SIMPSON POOL SHEATHING CLIPS.
E. ALL NAILING SHALL, AT A MINIMUM, MEET THE REQUIREMENTS OF IBC CHAPTER 23 TABLE 2304.9.1 NAILING SCHEDULE.
F. ALL REFERENCE TO 'SIMPSON' INDICATES STRUCTURAL CONNECTIONS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC.
G. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR ALL SIMPSON, OR EQUAL, CONNECTIONS.
H. PROVIDE SIZE, TYPE, AND QUANTITY OF FASTENERS RECOMMENDED BY METAL WOOD CONNECTOR MANUFACTURER UNLESS NOTED OTHERWISE. DETAILS SHOWING CONNECTOR FASTENERS ARE DIAGRAMMATIC.
I. LAMINATED VENEER LUMBER (LVL) MICROLAM LVL BY "I LEVEL" OR EQUAL
MIN ALLOWABLE BENDING STRESS, F_b 2600 PSI
MIN ALLOWABLE SHEAR STRESS, F_v 285 PSI
MODULUS OF ELASTICITY 1800 KSI
J. GLULAM BEAM.
MIN ALLOWABLE BENDING STRESS, F_b 2400 PSI
MIN ALLOWABLE SHEAR STRESS, F_v 165 PSI
MODULUS OF ELASTICITY 1800 KSI
8. WALL SHEATHING:
A. WALL SHEATHING TO BE APA RATED SHTG. MEETING THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1-07. PLYWOOD SHALL HAVE EXPOSURE 1 DURABILITY WITH A SPAN RATING OF 32/16.
B. TYPICAL WALL SHEATHING SHALL BE FASTENED WITH 8d NAILS AT 6" O.C. AT PANEL EDGES, AND 8d NAILS AT 12" AT INTERMEDIATE FRAMING. SEE DRAWING S2.1 FOR NAILING REQUIRED AT SHEAR WALLS.
C. SEE PLAN SHEET FOR SHTG. THICKNESS & OTHER NAIL SPACING.
9. ROOF SHEATHING:
A. ROOF SHEATHING TO BE 5/8" PLYWOOD MEETING THE REQUIREMENTS OF VOLUNTARY PRODUCT STANDARD PS 1-07. SHEATHING SHALL HAVE EXPOSURE 1 DURABILITY WITH A SPAN RATING OF 32/16.
B. ROOF SHEATHING TO BE FASTENED WITH 8d COMMON NAILS AT 6" O.C. AT SUPPORTED PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING MEMBERS.
C. ROOF SHEATHING TO BE ORIENTED WITH LONG AXIS PERPENDICULAR TO THE ROOF TRUSSES, STAGGERED AS SHOWN ON DRAWINGS.
10. STRUCTURAL COLD FORMED STEEL FRAMING:
A. ALL STRUCTURAL MEMBERS SHALL HAVE A MIN. YIELD STRNTH OF $F_y= 50$ KSI.
B. ALL CONNECTIONS SHALL BE WELDED (UNLESS NOTED OTHERWISE) AND SHALL BE 1/16" MIN. FILLET WELDS & 1/8" MIN. FLARE BEVEL WELDS. IF A CERTAIN CONNECTION IS NOT DETAILED, USE A SIMILAR DETAIL.
C. MINIMUM NET EFFECTIVE SECTION PROPERTIES SHALL BE AS FOLLOWS:
STRUCTURAL LIGHT GAUGE STEEL FRAMING SCHEDULE
MINIMUM NET EFFECTIVE SECTION PROPERTIES
SIZE AND GAUGE AREA IN² Sx IN³ Ix IN⁴ Fy ksi (MIN.)
60S200-54 .613 1.1 3.31 50
40S162-54 .443 .55 1.1 50
D. TYPICAL STUD SPACING SHALL BE 16" O.C. UNLESS NOTED OTHERWISE ON PLANS
CW/ ARCH. FOR ALL NON-STRUCTURAL STUD WALL FRAMING.

95% SUBMISSION

REVISIONS

DATE

CSH6A

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STAMP

PRELIMINARY
NOT FOR
CONSTRUCTION

DRAWING TITLE
STRUCTURAL NOTES

APPROVED: DIVISION CHIEF

APPROVED: SERVICE DIRECTOR

PROJECT TITLE
VAMC
ENERGY UPGRADES
PHASE ONE BUILDING 33

BUILDING NUMBER

33

LOCATION
BOISE, IDAHO

CHECKED

DH

DRAWN

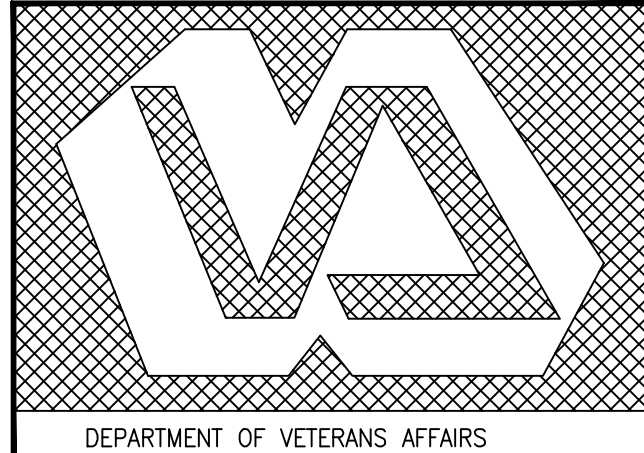
MG

DATE
03/03/11PROJECT NO.
531-10-114

DRAWING NO.

S0.1

DWG. 4 OF 32



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